

APPROVED	O.Q. FIG.
SIGN	CLASS SUBCLASS
DRAFTSMAN	

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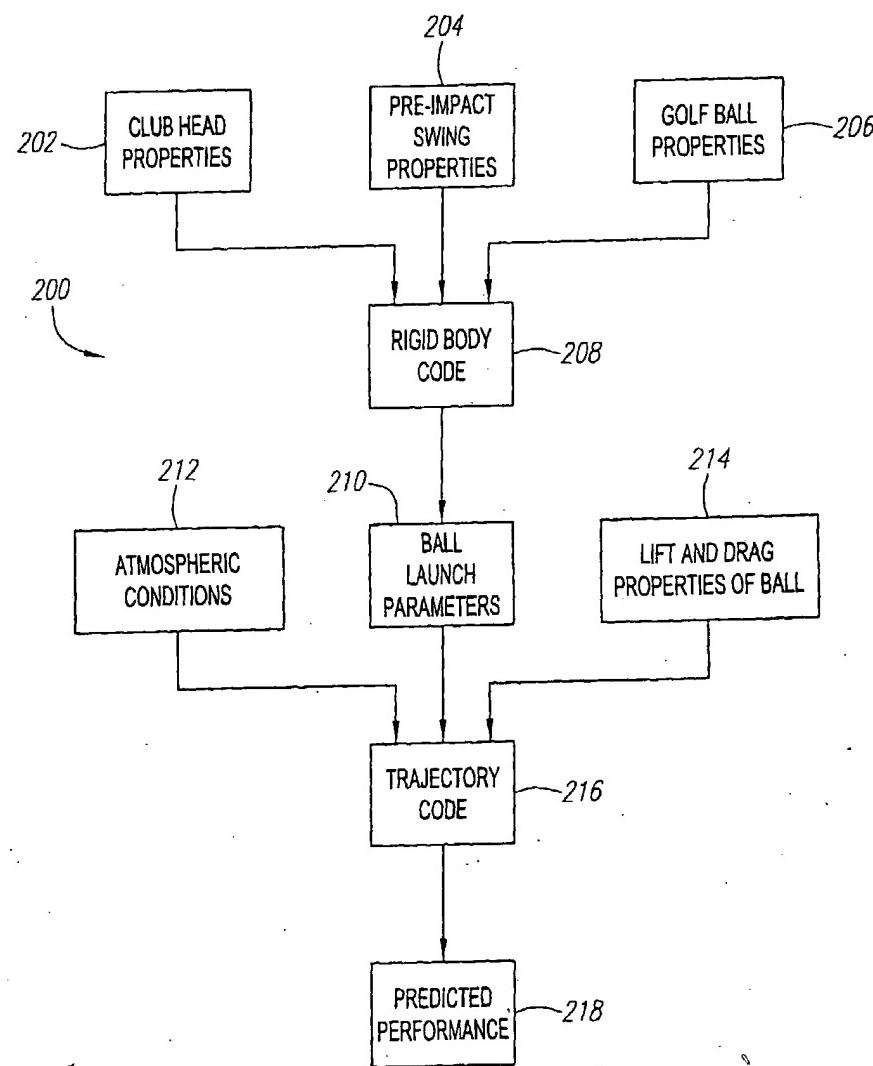
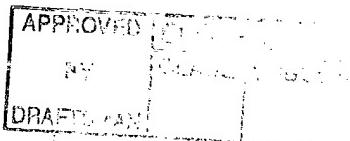
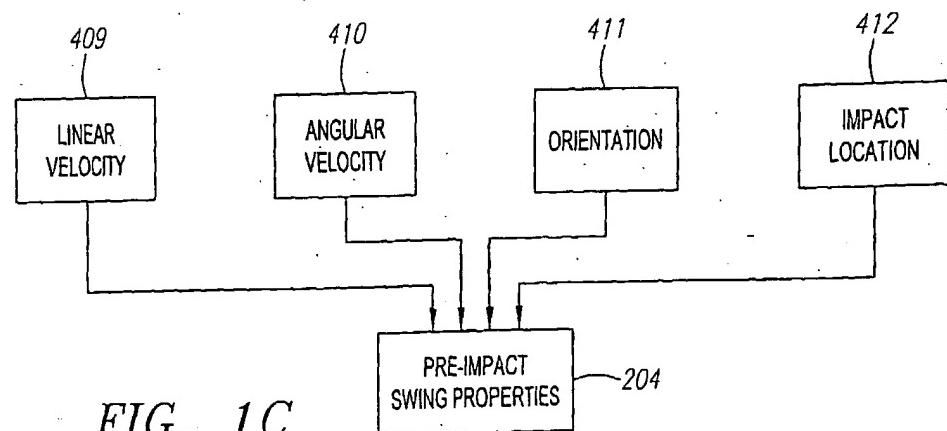
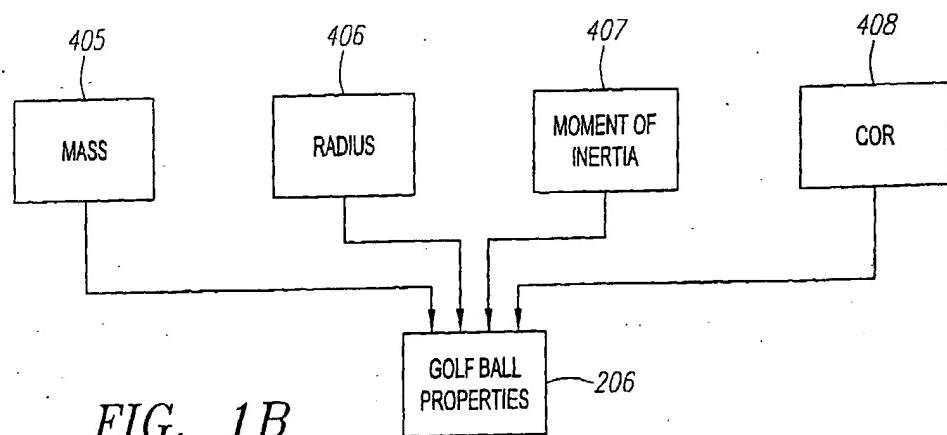
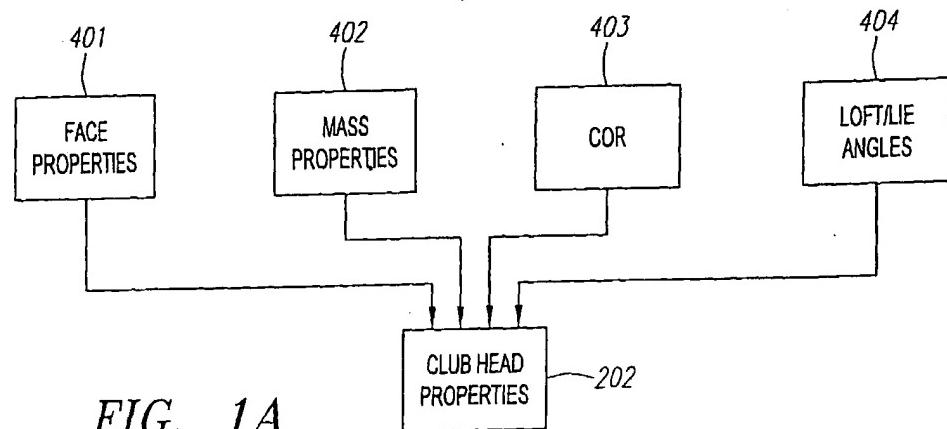
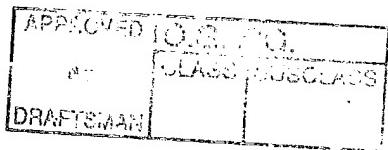


FIG. 1

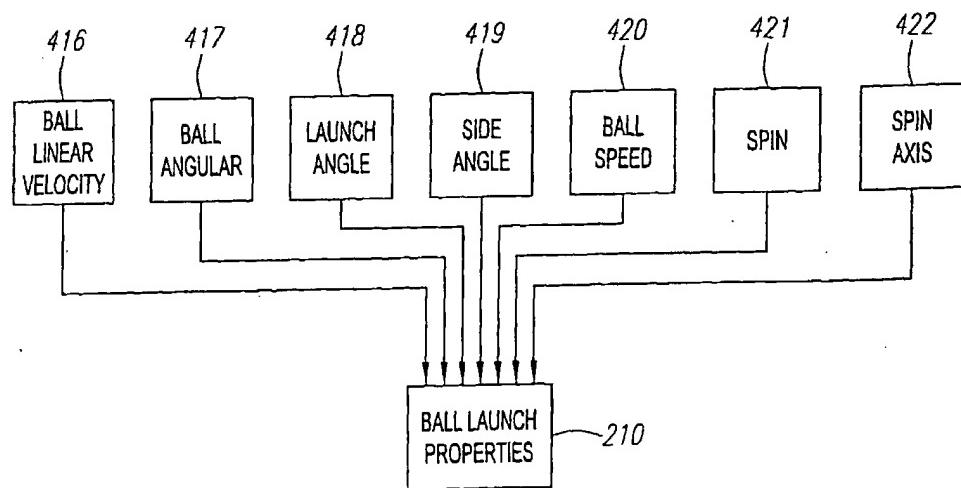


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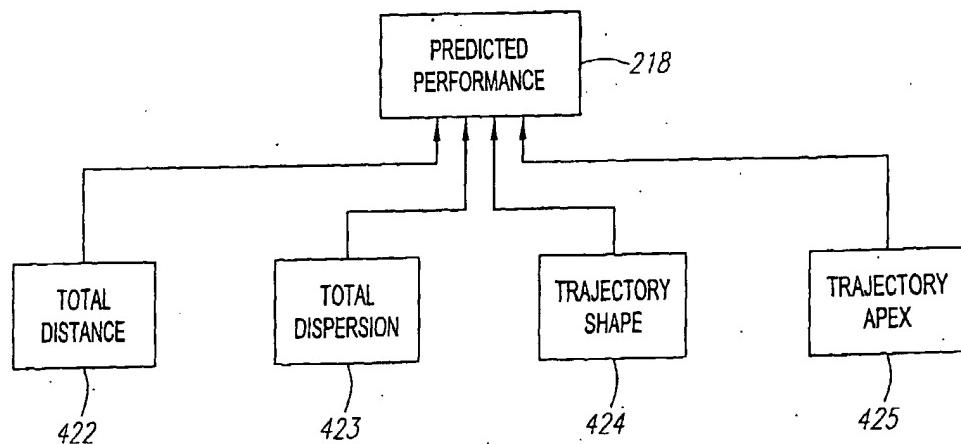




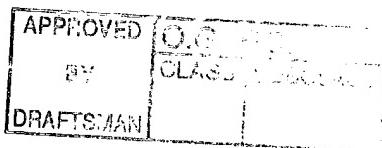
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*FIG. 1D*



*FIG. 1E*



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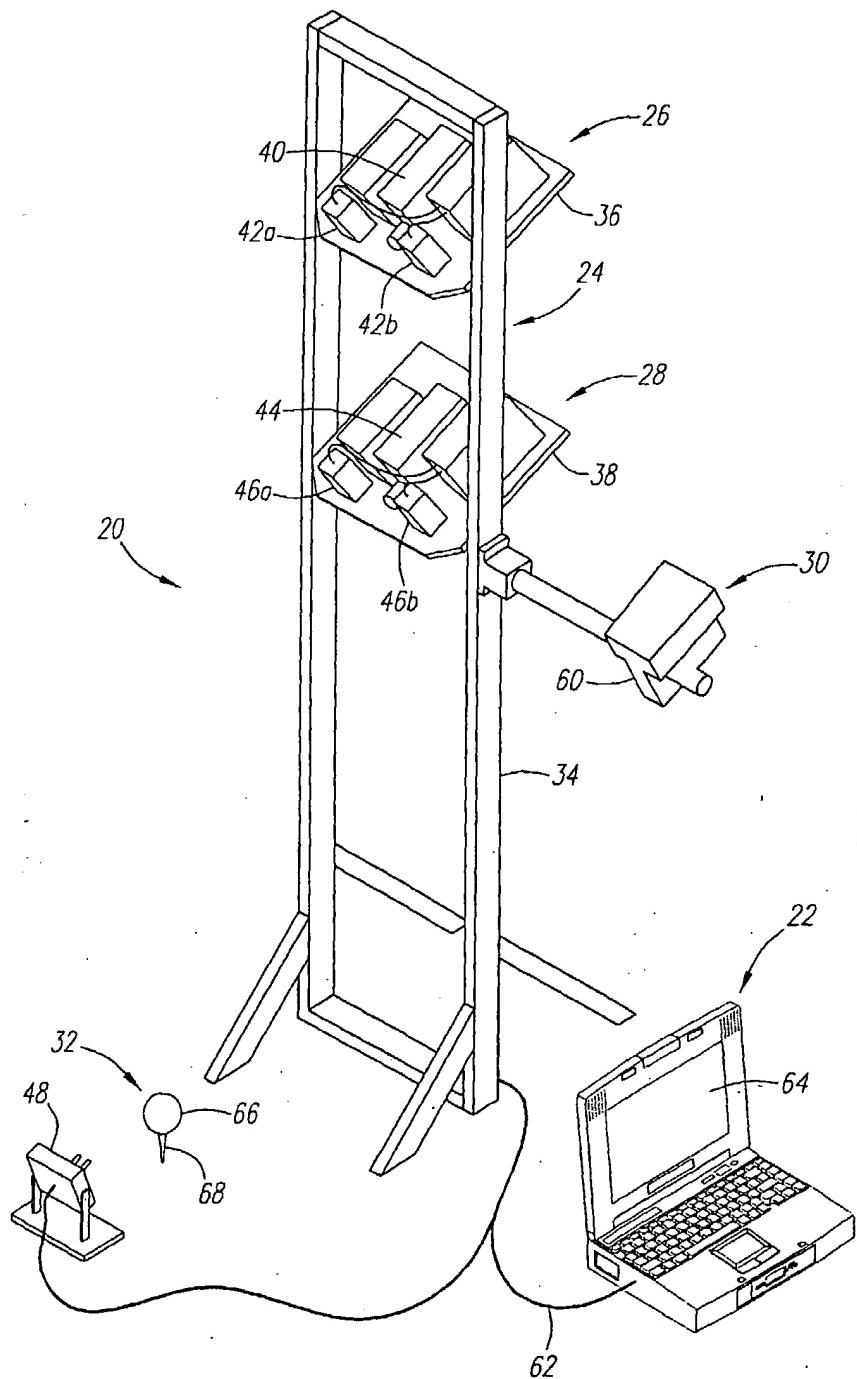
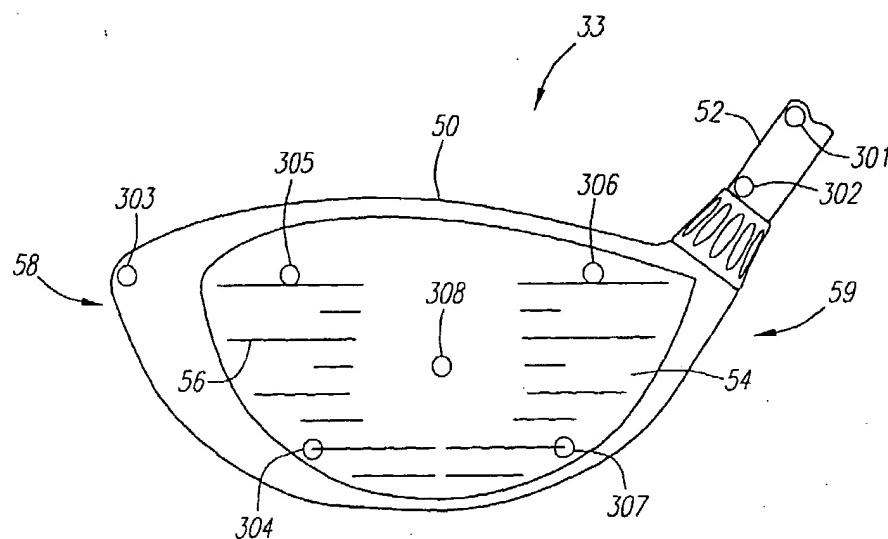


FIG. 2

APPROVED	O.G. FIG.
BY	CLASS
DRAFFMAN	SUBCLASS

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*FIG. 3*

POINT	WORLD X	WORLD Y	WORLD Z	ERROR	DISTANCE	CamO X	CamO Y
301	-86.762	-61.571	-288.862	0.347	0.000	350.000	657.000
302	-74.308	-53.481	-317.631	0.084	0.000	332.000	708.000
303	16.055	4.874	-342.577	0.051	0.000	175.000	782.000
304	-26.932	3.129	-371.397	0.146	0.000	254.000	825.000
305	-19.786	3.871	-343.333	0.021	0.000	238.000	779.000
306	-64.463	-31.024	-339.310	0.140	0.000	317.000	753.000
307	-66.308	-27.403	-367.273	0.023	0.000	323.000	800.000
308	-44.758	-11.521	-354.379	0.108	0.000	284.000	788.000

*FIG. 3A*

APPROVED	O. S. FIG.
BY	CLASS SUBCLASS
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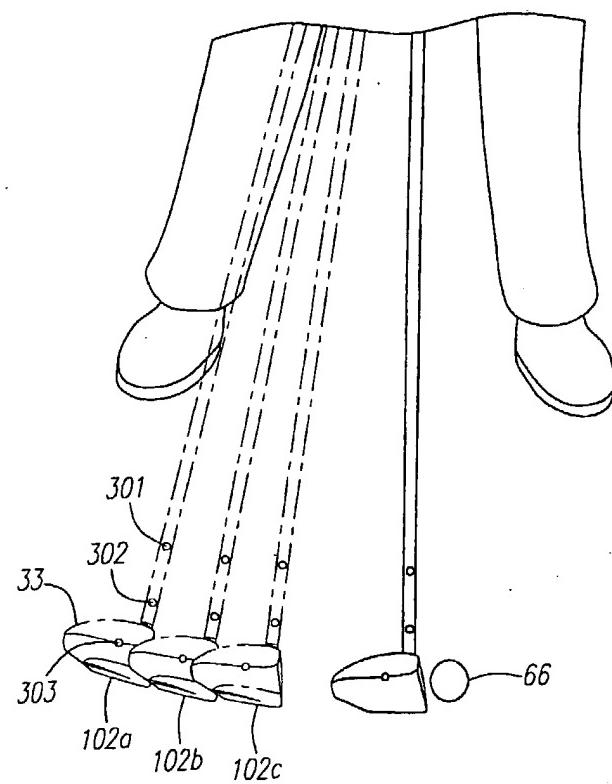


FIG. 4

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CLUB HEAD PARAMETERS

CLUB FILTER 1  CLUB FILTER 2

CHECK 2D MARKER SIZE (PIXELS)

MAXIMUM   DEFAULT  
MINIMUM

CHOOSE CLUBHEAD MARKER ORIENTATION

TWO ON CLUBHEAD  
 TWO ON SHAFT  
 TWO ON SHAFT + ONE TOE

NUMBER OF CLUBHEAD EXPOSURES  
  
 MIN = 8 MAX = 9

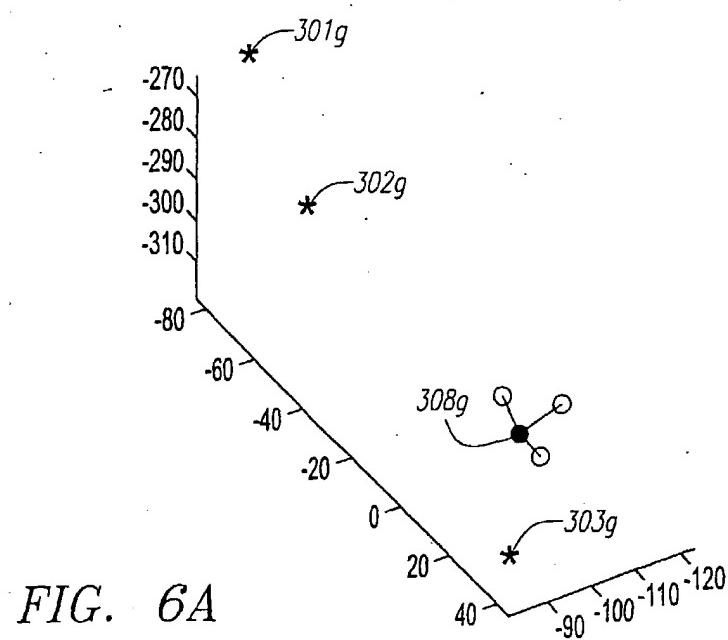
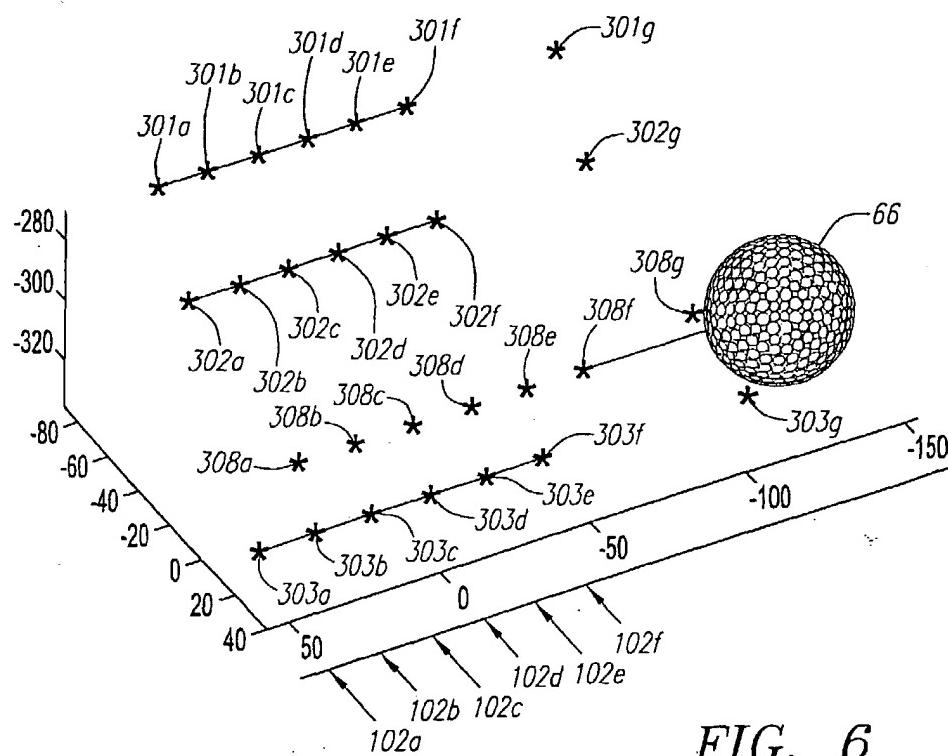
THRESHOLD SETTING (GREY SCALE)  
  DEFAULT

HOR. SEP.   BOX SETUP  
 VERT. SEP.   DEFAULT

FIG. 5

APPROVED	C. S. D.C.
BY	CLASH
DRAFSMAN	NUCLASS

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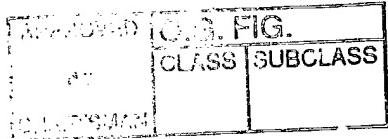


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BY	CLASS SUBCLASS
DRAFTSMAN	

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POINT	WORLD X	WORLD Y	WORLD Z	ERROR	DISTANCE	Cam0 X	Cam0 Y	Cam1 Y
1	25.403	-68.666	-273.087	0.111	0.000	242.515	645.011	207.000
2	25.721	-69.464	-288.941	0.029	0.000	241.496	693.577	217.137
3	9.897	-87.512	-272.644	0.030	0.000	268.582	644.080	232.530
4	9.769	-67.875	-298.553	0.070	0.000	268.638	692.660	243.845
5	5.735	-87.007	-272.220	0.023	0.000	294.857	642.971	257.675
6	6.311	-67.238	-288.038	0.143	0.000	296.011	691.479	269.969
7	21.271	-86.103	-271.525	0.006	0.000	320.897	641.474	282.607
8	22.270	-66.334	-297.401	0.038	0.000	323.118	689.855	295.663
9	-36.700	-85.210	-270.598	0.143	0.000	346.708	639.492	307.112
10	-38.391	-66.149	-296.520	0.132	0.000	350.431	687.885	321.133
11	-52.402	-84.929	-269.717	0.114	0.000	312.918	637.555	331.442
12	-54.388	-65.649	-295.440	0.133	0.000	377.461	685.556	346.190
13	57.162	34.188	-312.472	0.108	0.000	174.069	756.568	218.724
14	39.036	35.111	-312.274	0.148	0.000	207.939	755.624	251.265
15	20.973	36.864	-311.607	0.131	0.000	241.528	754.119	283.744
16	2.772	37.989	-310.857	0.051	0.000	275.386	752.137	315.686
17	-15.330	39.292	-309.880	0.186	0.000	308.983	750.018	347.139
18	-33.449	40.473	-308.726	0.063	0.000	342.554	747.174	378.164
19	-132.128	-0.469	-314.181	0.027	0.000	517.000	735.500	506.250

FIG. 6B



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**RBC CONTROLS**

**OK**       **CANCEL**

**POLYNOMIAL TO USE FOR CURVE FIT**

**2 MAX = 4 MIN = 1**

**DATA**       **WRITE OUTPUT FILE**

**IMPACT LOCATION ON FACE**       **FORCE IMPACT LOCATION**

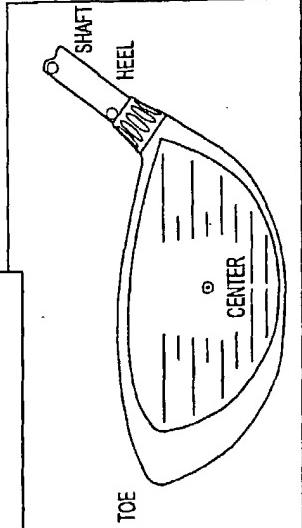
**VERTICAL INCREMENTAL LENGTH**  **8.64 mm**

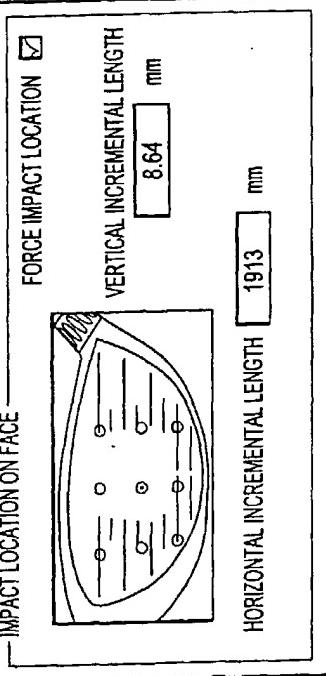
**HORIZONTAL INCREMENTAL LENGTH**  **1913 mm**

**TEE BALL LOCATION**       **FORCE TEE BALL LOCATION**

X  **-132.588**      Y  **1.078**      Z  **-314.279**

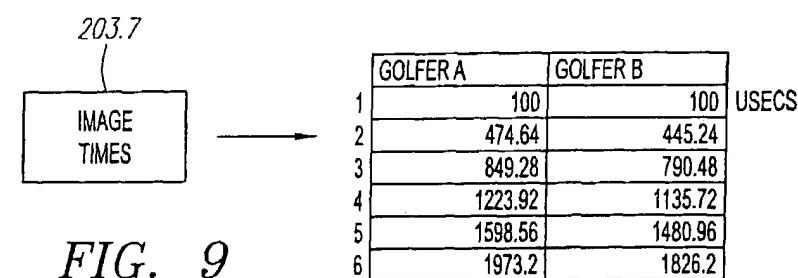
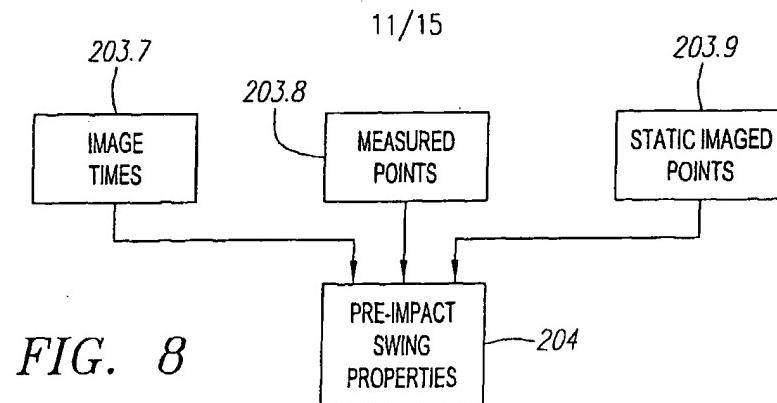
**UNITS = mm**





*FIG. 7*

APPROVED	BY	CLASS	REVISIONS
BY			
DRAFTER			



203.8

MEASURED POINTS

POINT	GOLFER A			GOLFER B			
	x	y	z	x	y	z	
1	22.5248	-83.9985	-277.294	mm	19.041	-72.461	-259.712
2	24.169	-65.4006	-303.476		22.4965	-55.2863	-286.794
3	7.19187	-82.9872	-277.522		4.01986	-70.4449	-259.675
4	8.42472	-64.3227	-303.821		7.01569	-53.2288	-286.847
5	-8.13186	-82.1665	-277.859		-10.9967	-69.261	-259.648
6	-7.22265	-63.5248	-303.832		-8.4661	-51.7105	-286.751
7	-23.3764	-81.5513	-277.808		-26.1186	-68.0642	-259.411
8	-23.0235	-62.4671	-303.799		-24.0434	-50.5302	-286.55
9	-38.7101	-81.1989	-277.632		-41.2492	-66.9375	-259.08
10	-38.7728	-62.1541	-303.773		-39.6559	-49.2957	-286.093
11	-53.8825	-80.338	-277.333		-56.2913	-65.3794	-258.417
12	-54.3404	-61.5229	-303.473		-55.2933	-48.2721	-285.617
13	55.757	37.5722	-317.082		52.9912	47.9439	-304.485
14	38.0195	39.5086	-317.184		35.5873	50.1247	-304.708
15	20.3043	41.514	-317.408		18.3605	52.5852	-304.554
16	2.59074	42.9978	-317.464		0.955063	54.6563	-304.407
17	-15.4104	43.8896	-317.378		-16.5273	56.2923	-303.924
18	-33.2143	45.1303	-316.736		-33.9984	57.8887	-303.17
19(BALL)	-133.559	-3.897	-315.635		-133.559	-3.897	-315.635

*FIG. 10*

APPROVED	DATE
BY	CLASS
DRAFTSMAN	SUBCLASS

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203.9

STATIC  
IMAGE  
POINTS

POINT	GOLFER A			GOLFER B			
	x	y	z	x	y	z	
1	-86.2027	-59.7842	-288.178	mm	-86.2027	-59.7842	-288.178
2	-73.7585	-51.7931	-317.232		-73.7585	-51.7931	-317.232
3	16.84	7.93595	-341.742		16.84	7.93595	-341.742
4	-26.4742	4.66858	-370.935		-26.4742	4.66858	-370.935
5	-19.7858	3.87145	-343.333		-19.7858	3.87145	-343.333
6	-64.4634	-31.0241	-339.31		-64.4634	-31.0241	-339.31
7	-66.9001	-27.2861	-367.303		-66.9001	-27.2861	-367.303
8	-44.8512	-9.84895	-353.971		-44.8512	-9.84895	-353.971

FIG. 11

202

CLUB HEAD  
PROPERTIES

401	FACE PROPERTIES	STEEL	Ti	
	FACEANGLE	0	0	DEGREE
	FACEBOTTOMCENTER			
	x	-0.714	-0.795	INCH
	y	0.756	0.643	
	z	0.17	0.197	
	FACECENTER			
	x	0	0	
	y	0.756	0.643	
	z	0.949	1.21	
	BULGE	9.5	11	INCH
	ROLL	11	11	

402	MASS PROPERTIES			
	MASS	197	187	GRAM
	CGX	0.423	0.634	INCH
	CGY	0.664	0.574	
	CGZ	0.871	0.9899	
	MOIxx	1737	2291	GRAMCM2
	MOIyy	1378	1781	
	MOizz	2337	2871	
	MOIx	213	247	
	MOIxz	-18	-12	
	MOIyz	113	164	

403	COR	0.785	0.865	
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404	LOFT	11	13	DEGREE
	LIE	55	55	

	HOSELHEIGHT	0	0	
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	SPINCOR	0	0	
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FIG. 12

CLASS	SUBCLASS
CHAPTER	

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**204**

**PRE-IMPACT SWING PROPERTIES**

→

GOLFER A GOLFER B (AVERAGES)			
409	LINEAR VELOCITY		
VX		-100.07	-107.35 MPH
VY		-2.12	18.04
VZ		5.63	9.99
410	ANGULAR VELOCITY		OPTIONAL
411	ORIENTATION		
FACE LOFT VECTOR			
x		0.3251	0.27673
y		-0.07685	-0.03143
z		0.942547	0.96043
FACE LIE VECTOR			
x		0.08157	0.08518
y		0.9953	0.99633
z		0.05302	0.00806
FACE NORMAL VECTOR			
x		-0.94215	-0.95716
y		0.05965	0.07958
z		0.32984	0.2784
SHAFT VECTOR			
x		-0.05612	-0.01957
y		0.57527	0.500194
z		-0.81603	-0.8657
412	IMPACT LOCATION		
x		0.21	-0.38 INCH
y		0.41	-0.16

FIG. 13

**206**

**GOLF BALL PROPERTIES**

→

	TWO PIECE	THREE PIECE	
405	MASS	45.387	45.23 GRAM
406	RADIUS		
	DIAMETER	1.68	1.678 INCH
407	MOMENT	1.34E-03	1.04E-03 OINCHS2
408	COR	0.759	0.7455

FIG. 14

APPROVED	O. S. FIG.
BY	
DRAFTSMAN	

210

BALL LAUNCH PARAMETERS	POSSIBLE LAUNCH PARAMETERS		
	GOLFER A STEEL/2PC	STEEL/3PC	Ti/2PC
	Ti/3PC		
416 BALL LINEAR VELOCITY	138.3	137	141.2
VX	132.6	131.2	134
WY	3.01	3.11	3.26
VZ	39.2	39.5	44.4
417 BALL ANGULAR VELOCITY	2512	2667	2640
		2910	2820
418 LAUNCH ANGLE	16.5	16.8	18.4
419 SIDE ANGLE	4.4	4.5	4.2
420 BALL SPEED	138.3	137	141.2
421 SPIN	2512	2667	2640
422 SPIN AXIS	20.784	20.774	19.172

	GOLFER B STEEL/2PC	STEEL/3PC	Ti/2PC	Ti/3PC
416 BALL LINEAR VELOCITY	140.3	155.5	154.5	160.8
VX	132.9	152.8	151.7	157
WY	3.37	0.55	0.62	0.79
VZ	44.9	28.9	29.5	34.8
417 BALL ANGULAR VELOCITY				
		2910	2820	3080
418 LAUNCH ANGLE	16.5	18.4	18.7	10.7
419 SIDE ANGLE	4.4	4.5	4.2	4.3
420 BALL SPEED	138.3	137	141.2	140.3
421 SPIN	2512	2667	2640	2910
422 SPIN AXIS	20.784	20.774	19.172	19.089

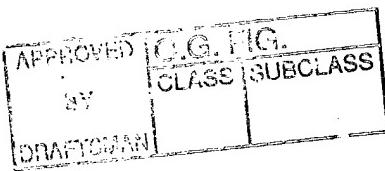
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FIG. 15

	NICE	COLD
TEMP	72	43 F
WIND	0	9 MPH
HUMIDITY	50	76 PERCENT
PRESSURE	29.92	30.33 INCHES

214 →  
ATMOSPHERIC  
CONDITIONS

FIG. 16



218  
PREDICTED PERFORMANCE

PLAYER	GOLFER A	NICE STEEL 3 PIECE	COLD STEEL 2 PIECE	COLD STEEL 3 PIECE	NICE Ti 2 PIECE	NICE Ti 3 PIECE	COLD Ti 2 PIECE	COLD Ti 3 PIECE	YARDS
422 TOTAL DISTANCE	237	235	232	230	239	234	236	232	232
423 TOTAL DISPERSION	-159	-160	-114	-113	-157	-158	-111	-112	FEET
424 TRAJECTORY SHAPE	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)
424 TRAJECTORY SHAPE VERTICAL	88	90	87	87	110	115	108	112	FEET
424 TRAJECTORY SHAPE HORIZONTAL	27	26	14	13	26	26	13	13	FEET
PLAYER	GOLFER B	NICE STEEL 3 PIECE	COLD STEEL 2 PIECE	COLD STEEL 3 PIECE	NICE Ti 2 PIECE	NICE Ti 3 PIECE	COLD Ti 2 PIECE	COLD Ti 3 PIECE	YARDS
422 TOTAL DISTANCE	253	254	259	258	261	257	258	255	255
423 TOTAL DISPERSION	-116	-118	-76	-75	-139	-145	.91	.91	FEET
424 TRAJECTORY SHAPE	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)	(GRAPH)
424 TRAJECTORY SHAPE VERTICAL	77	79	75	76	101	107	98	104	FEET
424 TRAJECTORY SHAPE HORIZONTAL	27	27	15	14	33	33	18	18	FEET

FIG. 17

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